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LOW PRESSURES RESEARCH
College Avenue Pool
November 18, 1952

Director
Office of Naval Research
1000 Geary Street
San Francisco 9, California

MONTHLY STATUS REPORT - OCTOBER 1952

Contract N7-onr-295-Task 3
Project Number Nr 061-003

Dear Sir:

Progress on the contract for the month of October has been as follows:

1. Traverses of a molecular beam reflected from a glass plate have begun. These initial measurements indicate that a satisfactory signal can be detected. Complete polar traverses of the reflected beam are now under way with a 1 per cent acceptance tube mounted on the detector gage.
2. During the month of October several test programs made use of the No. 3 Wind Tunnel. Impact and static probes were tested under a separate N.A.C.A. sponsored program. Base pressure studies were continued in an effort to determine the cause of minor discontinuities in the test data.
3. The cone-drag single component balance has been completed and is now being bench tested prior to its use in wind tunnel tests.
4. The design of a new rotating cylinder drag balance has been completed. Shop work will be delayed due to the press of other test programs.
5. The following reports are in various phases of preparation:
 - a) A report describing the design analysis of a free molecule flow hot wire probe for wind tunnel use is being prepared, and will be issued shortly.
 - b) A report describing the design and operational tests of a rotating cylinder apparatus for use in low density gas dynamics research is being written.
 - c) A report describing the results of a subsonic heat transfer program using spherical models is being written.

6. Visitors: The following persons visited the project during the month:

John S. Wilkes = C. I. D., San Francisco, Calif.
William Lawrence Lewis = Western Representative, Guggenheim
Aeronautical Safety Center, Cornell
University

Very truly yours,

S. A. Schaaf
S. A. Schaaf
Faculty Investigator

SAS:ds

cc: 1 ONR San Francisco

3 ONR Washington D.C.

2 Office of Scientific Research
Fluid Mechanics Branch
Research and Development Command
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1 Dr. Morton Alperin,
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